

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

## Video Worksheet: Planet Earth "Pole to Pole"

**Part A: Define the following vocabulary terms using your textbook:** *(Never mind... I did it for you... you're welcome!)*

Abiotic – the nonliving components of an ecosystem (soil, water, sunlight, etc...)

Biotic – the living components of an ecosystem (plants, animals, microorganisms, etc...)

Herbivore – an animal that only feeds on plants (rabbit, deer, cow, etc...)

Carnivore – an animal that only feeds on meat (wolf, lion, shark, etc...)

Ecology – the study of the relationships between organisms and their environment

**Part B: Answer the following questions about each biome as you watch the video:**

### Polar 1 (Arctic)

1. List two abiotic factors that affect life in the arctic: \_\_\_\_\_
2. List one biotic factor that affects life in the arctic: \_\_\_\_\_
3. List one carnivore from the video that lives in the arctic: \_\_\_\_\_

### Tundra

4. List two abiotic factors that affect life in the tundra: \_\_\_\_\_
5. List two biotic factors that affect life in the tundra: \_\_\_\_\_
6. List one herbivore from the video that lives in the tundra: \_\_\_\_\_
7. List one carnivore from the video that lives in the tundra: \_\_\_\_\_
8. What is the main source of energy for the herbivore? \_\_\_\_\_
9. What is the main source of energy for the carnivore? \_\_\_\_\_

### Boreal Forest (Taiga)

10. What kind of tree inhabits boreal forests? \_\_\_\_\_

### Temperate (deciduous) Forest

11. What kind of tree inhabits temperate forests? \_\_\_\_\_
12. List two abiotic factors that affect life in the temperate forests: \_\_\_\_\_
13. List two biotic factors that affect life in the temperate forests: \_\_\_\_\_
14. List one herbivore from the video that lives in a temperate forest: \_\_\_\_\_
15. List one carnivore from the video that lives in a temperate forest: \_\_\_\_\_
16. Why are the carnivores that you saw in the temperate forest segment so scarce now? \_\_\_\_\_  
\_\_\_\_\_
17. What causes the Earth to have seasons? \_\_\_\_\_

## Tropical Forest

18. List two abiotic factors that affect life in tropical forests: \_\_\_\_\_
19. List two biotic factors that affect life in tropical forests: \_\_\_\_\_
20. The rainforest covers 3% of the planet surface, but contains \_\_\_\_\_% of its species!

## Ocean (marine)

21. List two abiotic factors that affect life in the oceans: \_\_\_\_\_
22. List two biotic factors that affect life in the oceans: \_\_\_\_\_
23. List one carnivore from the video that lives in the ocean: \_\_\_\_\_

## Desert

24. List two abiotic factors that affect life in the desert: \_\_\_\_\_
25. List two biotic factors that affect life in the desert: \_\_\_\_\_
26. List two herbivores from the video that live in the desert: \_\_\_\_\_
27. List two carnivores from the video that live in the desert: \_\_\_\_\_
28. Which abiotic factor has the biggest influence on the desert organisms? Why? \_\_\_\_\_

## Polar 2 (Antarctic)

29. List two abiotic factors that affect life in the Antarctic: \_\_\_\_\_
30. List one biotic factor that affects life in the Antarctic: \_\_\_\_\_

**Summary:** In a **minimum** of SIX sentences, describe some interesting facts that you learned about an animal, a biome and an environmental adaptation.

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